INTERNATIONAL SEARCH REPORT

Inten _ Application No PCT/EP2004/052292

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01J31/02 B01J C07C2/08 B01J23/44 B01J23/755 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) B01J C07C IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category * 1 - 13M.F. PINHEIRO, R.S. MAULER, R.F. DE SOUZA: Α "Biphasic Ethylene Polymerization with a Diiminenickel Catalyst" MACROMOL. RAPID COMMUN. vol. 22, 2001, pages 425-428, XP002279101 the whole document 1 - 13Y. CHAUVIN, S. EINLOFT, H. OLIVIER: Α "Catalytic Dimerization of Propene by Nickel-Phosphine Complexes in 1-Buty1-3-methylimidazolium Chloride/AlEtxCl3-x (x=0,1) Ionic Liquids" IND. ENG. CHEM. RES., vol. 34, 1995, pages 1149-1155, XP002279102 the whole document Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to *E* earlier document but published on or after the international involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docuwhich is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means *P* document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 23/12/2004 17 December 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo ni, Schoofs, B

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Heleverit to create Mo.
A	CHAUVIN Y ET AL: "Oligomerization ofn-Butenes Catalyzed by Nickel Complexes Dissolved in Organochloroaluminate Ionic Liquids" JOURNAL OF CATALYSIS, ACADEMIC PRESS, DULUTH, MN, US, vol. 165, no. 2, 15 January 1997 (1997-01-15), pages 275-278, XP004459645 ISSN: 0021-9517 the whole document	1-13
A	US 2003/166985 A1 (ZUSHMA STEPHEN ET AL) 4 September 2003 (2003-09-04) paragraph '0106!; examples	1-13
		,

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Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2003166985	A1	04-09-2003	WO	03072529 A1	04-09-2003